

REMARKS

In the Office Action dated July 30, 2003, claims 1-23 were rejected under 35 U.S.C. § 102 over U.S. Patent No. 6,484,159 (Mumick). Applicant respectfully submits that the claims are allowable over Mumick.

With respect to claim 1, Mumick does not disclose storing at least one auxiliary relation containing one or more attributes of one of the base relations, with the auxiliary relation partitioned *across the plural nodes of a database system* according to a join attribute. Mumick depicts a database system 100 in Figure 1, with the database system 100 including *a* central processing unit (CPU) 102 that is connected to *a* storage device 110. Mumick, 3:1-6. The storage device 110 includes a database 112 that contains tables 114A-Z and materialized views 122A-Z. None of the tables 114, materialized views 122, and any other data structure disclosed in Mumick are partitioned across plural nodes according to a join attribute. Therefore, claim 1 is allowable over Mumick.

Independent claim 4 is also allowable over Mumick, because Mumick does not disclose receiving a first tuple into a base relation at *a first node* of a parallel database system, and storing the first tuple in an auxiliary relation at *a second node* of a parallel database system. Moreover, there is absolutely no teaching whatsoever in Mumick of an auxiliary relation that is partitioned across nodes of the database system according to a join attribute, and of a base relation that is partitioned across the nodes according to an attribute different from the join attribute.

With respect to independent claim 13, Mumick fails to disclose storage modules to store base relations in at least a first auxiliary relation corresponding to a first one of the base relations, where the first auxiliary relation is partitioned across the storage modules differently than the first base relation.

With respect to independent claim 16, Mumick fails to disclose receiving a first tuple into a first base relation at a first node, and storing the first tuple in a first auxiliary relation at a second node, where the first auxiliary relation is partitioned according to the first attribute, and where the first base relation is partitioned across the plural nodes according to an attribute other than the first attribute.

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Dependent claims are allowable over the reference for at least the same reasons as corresponding independent claims. The new claims, which are dependent claims, are also allowable over Mumick.

Allowance of all claims is respectfully requested. The Commissioner is authorized to charge any additional fees, including extension of time fees, and/or credit any overpayment to Deposit Account No. 50-1673 (9917).

Respectfully submitted,



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